**Skills Portfolio Name: …………………………….**

**Chemistry Practical 1: The preparation of copper (II) sulfate**

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| Correct use of a top pan balance Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photograph here* | ***What was difficult about the technique? What advice would you give another student to carry it out correctly?*** |

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| Correct use of a measuring cylinder Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photograph here* | ***What was difficult about the technique? What advice would you give another student to carry it out correctly?*** |

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| Correct use of a Bunsen burner Level of confidence (circle) 1 (low) 2 3 4 5 (high) |
| ***Describe how a Bunsen flame changes in appearance when the air hole is opened and closed, and explain these observations with reference to the chemistry of combustion.*** |

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| Folding a fluted filter paper Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photograph here* | ***What was difficult about the technique? What advice would you give another student to carry it out correctly?*** |

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| Carrying out a gravity filtration Level of confidence (circle) 1 (low) 2 3 4 5 (high) | |
| *Insert photograph here* | ***What was difficult about the technique? What advice would you give another student to carry it out correctly?*** |

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| Writing a balanced equation Level of confidence (circle) 1 (low) 2 3 4 5 (high) |
| ***Write a balanced symbol equation for the reaction between copper (II) oxide and sulfuric acid (don’t include water of crystallisation in the formula of copper sulfate).*** |
| ***Sulfate salts can be prepared by the reaction of dil. sulfuric acid with the metal itself. Write a balanced symbol equation to show the formation of magnesium sulfate in this way.*** |

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| Calculating % Yield Level of confidence (circle) 1 (low) 2 3 4 5 (high) |
| ***Calculate the % yield of Copper (II) Sulfate obtained in this practical. Show all working.*** |

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| Writing an experimental method Level of confidence (circle) 1 (low) 2 3 4 5 (high) |
| ***Write your experimental method here:*** |